

NONPROVISIONAL PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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BOX PATENT APPLICATION

**NONPROVISIONAL APPLICATION TRANSMITTAL  
RULE §1.53(b)**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Transmitted herewith for filing under 37 C.F.R. §1.53(b) is the nonprovisional patent application

For (Title): COMMUNICATION APPARATUS  
By (Inventors): Hiroyuki YAMAMOTO

Formal drawings (Figs. 1-9; 9 sheets) are attached.  
 A Declaration and Power of Attorney is filed herewith.  
 An assignment of the invention to BROTHER KOGYO KABUSHIKI KAISHA is filed herewith.  
 An Information Disclosure Statement is filed herewith.  
 A statement to establish small entity status under 37 C.F.R. §§1.9 and 1.27 is filed herewith.  
 A Preliminary Amendment is filed herewith.  
 Please amend the specification by inserting before the first line the sentence --This nonprovisional application claims the benefit of U.S. Provisional Application No. \_\_\_\_\_, filed \_\_\_\_\_.--  
 Priority of foreign application No. 11-36242 filed February 15, 1999 in Japan is claimed (35 U.S.C. §119).  
 A certified copy of the above corresponding foreign application is filed herewith.  
 The filing fee is calculated below:

CLAIMS IN THE APPLICATION AFTER ENTRY OF  
ANY PRELIMINARY AMENDMENT NOTED ABOVE

FOR:	NO. FILED	NO. EXTRA
BASIC FEE		
TOTAL CLAIMS	24 - 20	= 4
INDEP CLAIMS	5 - 3	= 2
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIMS PRESENTED		

\* If the difference is less than zero, enter "0".

**SMALL ENTITY**

RATE	FEES
	\$ 345
x 9 =	\$
x 39 =	\$
+130 =	\$
TOTAL	\$

**OTHER THAN A  
SMALL ENTITY**

RATE	FEES
	\$ 690
x 18	\$ 72
x 78	\$ 156
+260	\$ 0
TOTAL	\$ 918

Check No. 68116 in the amount of \$918.00 to cover the filing fee is attached. Except as otherwise noted herein, the Commissioner is hereby authorized to charge any other fees that may be required to complete this filing, or to credit any overpayment, to Deposit Account No. 15-0461. Two duplicate copies of this sheet are attached.

This application is entitled to small entity status. DO NOT charge large entity fees to our Deposit Account.

Respectfully submitted,



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### **Application Information**

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Title Line Two::  
Title Line Three::  
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**Continuity Information**

>This application is a::  
Application One::  
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**Prior Foreign Applications**

Foreign Application One:: 11-36242  
Filing Date:: February 15, 1999  
Country:: Japan  
Priority Claimed:: yes  
Foreign Application Two::  
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Priority Claimed::  
Foreign Application Three::  
Filing Date::  
Country::  
Priority Claimed::

## COMMUNICATION APPARATUS

BACKGROUND OF THE INVENTION1. Field of Invention

5 The invention relates to a communication apparatus, such as a facsimile apparatus, capable of transmitting to a receiver image information formed on a read medium, for example, on a document, through a line. Specially, the invention relates to the communication apparatus that selectively attaches or does not attach various transmission information (header information) according to receivers, so that the facility of the communication apparatus is increased.

10 2. Description of Related Art

A communication apparatus capable of transmitting image information formed on a read medium to a receiver, via a communication line are commercialized.

15 As for such communication apparatus, there is known, for example, an ordinary facsimile apparatus that sends image information to a receiver using an ordinary public telephone line, and an internet facsimile apparatus capable of sending the image information to a receiver, through a network (communication line network), such as the Internet and intranet. The internet facsimile apparatus may include an image reading unit capable of reading image information formed on a read medium, an address inputting unit capable of inputting receiver's address information (for example, a receiver's facsimile number or mail address), a transmission information attaching unit capable of attaching various transmission information (header information), such as a transmitter, date and time of transmission, and the number of transmitted pages. In the above-described internet facsimile apparatus, the various transmission information is attached to a part of the image information read via the 20 image reading unit (for example, top or bottom thereof out of the read image information range). The image information is transmitted to a receiver connected via a network, with the various transmission information attached. The receiver receives the image information of the read medium with the transmission information attached thereto, so that the receiver may easily understand when and how much the image 25 information is transmitted by whom.

30

However, when the transmitter sends the image information, using the above-described internet facsimile apparatus, without the transmission information attached

for the receiver's sake (such as when the receiver wants to receive the same image information as a transmitter sends) or for the transmitter's sake (such as when the transmitter wants to send the image information anonymously), the several settings have to be changed in procedural steps in the transmitter-side internet facsimile apparatus. Such setting changes are inconvenient for users.

#### SUMMARY OF THE INVENTION

Accordingly, one aspect of the invention is to provide a communication apparatus that selectively attaches or does not attach various transmission information (header information) according to receivers, so that communication can be conducted easily.

Another aspect of the invention is to provide a communication apparatus in which attachment/non-attachment of the various transmission information can be easily set or changed.

To achieve one aspect of the invention, a communication apparatus of the invention is capable of transmitting to a receiver image information with transmission information attached to a part of the image information, via a communication line. The communication apparatus may include an address inputting device capable of inputting address information of the receiver, a setting device that sets an attachment or a non-attachment of the transmission information in association with the address information, a storage device that stores the address information for which the attachment/non-attachment of the transmission information is set, a transmission information attaching device that attaches/does not attach the transmission information to the image information, based on the address information stored in the storage device, and a transmission device that transmits the image information with/without the transmission information attached thereto by the transmission information attaching device.

In the communication apparatus, the various transmission information can selectively be attached to a part of the image information according to the receiver's address information. Therefore, when the transmission information is required for a receiver every time the image information is sent to the receiver, a user of the communication apparatus does not have to change some settings as to the transmission information attachment/non-attachment every time. Consequently, the time required and some burden placed on the user when the image information is transmitted, can be saved and reduced.

### BRIEF DESCRIPTION OF THE DRAWINGS

Preferred embodiments of the invention will be described in detail with reference to the following figures wherein:

5 Fig. 1 is a block diagram illustrating the construction of an internet facsimile apparatus of a communication apparatus according to an embodiment of the invention;

Fig. 2 is a block diagram illustrating the construction of a part of the internet facsimile apparatus and a network of communication lines to which the internet facsimile apparatus is connected;

10 Fig. 3 is a flowchart illustrating a transmission information attachment/non-attachment process.

Fig. 4 is a flowchart illustrating a setting process of attaching/not-attaching the transmission information.

15 Fig. 5A is a figure illustrating data contents when image information is transmitted to a receiver-side facsimile apparatus, via the internet facsimile apparatus;

Fig. 5B is a figure illustrating image information formed on a read medium;

Fig. 5C is a figure illustrating image information received by the receiver-side facsimile apparatus;

20 Fig. 6A is a figure illustrating data contents when image information is transmitted to a receiver-side facsimile apparatus, via the internet facsimile apparatus;

Fig. 6B is a figure illustrating image information formed on a read medium.

Fig. 6C is a figure illustrating image information received by the receiver-side facsimile apparatus;

25 Fig. 7A is a figure illustrating data contents when image information is transmitted to a receiver-side facsimile apparatus, via the internet facsimile apparatus;

Fig. 7B is a figure illustrating an image information formed on a read medium;

Fig. 7C is a figure illustrating an image information received by the receiver-side facsimile apparatus.

30 Fig. 8 is a flowchart illustrating a transmission information attachment/non-attachment process according to one embodiment of the invention; and

Fig. 9 is a flowchart illustrating a transmission information attachment/non-attachment process according to one embodiment of the invention.

Further objects, details, and advantages of the invention will be apparent from the following detailed description, when read in conjunction with the drawings.

## DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

Preferred embodiments of the invention will be described in detail hereinafter with reference to the accompanying drawings.

Fig. 1 is a block diagram illustrating the construction of an internet facsimile apparatus of a communication apparatus according to an embodiment of the invention.

As shown in Fig. 1, the internet facsimile apparatus 10 includes the following components: an image forming unit 14 capable of forming image information

(including characters and numbers) to be recorded onto a print medium; an image reading unit 16, provided with an optical character reader, capable of reading the image information formed on a read medium; a personal computer (PC) interface 18 capable of interchanging information with a personal computer (not shown); an information compressing/decompressing unit 20 that compresses the image information read via the image reading unit 16 or decompresses the received image information; a communication function unit 22 that directly controls the data transmission/reception processing performed by the internet facsimile apparatus 10; a speaker 34 capable of outputting voices and error sounds; a read-only memory (ROM) 36 that stores, for example, a program for the transmission information attachment/non-attachment process (described below) and a font data; an electrically erasable programmable ROM (EEPROM) 38 capable of registering and storing the receiver's address information (for example, a receiver's facsimile number or a receiver's mail address) input via a control panel 46 (described below) and the information as to the setting according to receivers, of the attachment/non-attachment of the various transmission information (header information) including the transmitter, date and time of transmission, and the number of transmitted pages; a random-access memory (RAM) 40 capable of storing/erasing various information; and the control panel 46 having key switches capable of inputting an operation instruction by a user, a liquid crystal display (LCD) capable of showing, for example, various processing results and information as to an address. The above-described components are connected to a CPU 12 via a bus 54 and controlled by the CPU 12.

The communication function unit 22 includes the following elements: a transmission information attaching unit 24 capable of attaching the various

transmission information to a part of the image information (for example, top or bottom thereof out of the read image information range); a communication control unit 26 that performs communication controls; a line control unit 28 that performs the line controls between the internet facsimile apparatus 10 and a public telephone line 5 56 which will be described below (see Fig. 2); a network control unit 30 that performs line controls between the internet facsimile apparatus 10 and a local area network (LAN) 68 which will be described below (see Fig. 2); and a modem 32 that modulates and demodulates signals.

The RAM 40 includes a transmission information memory 42 capable of 10 storing pieces of the various transmission information as to the transmitted image information and a work memory 44 capable of temporarily storing data to be required when the transmission/reception of the image information is executed.

The control panel 46 includes a start key 45 for starting the reading or the 15 transmission of the image information, a liquid crystal display (LCD) capable of showing, for example, various processing results and information as to an address, ten-numbered keys 48 capable of inputting, for example, a receivers' facsimile number and various numerical information, character keys 50 capable of inputting, for example, a receiver's mail address and a receiver's name, an abbreviation key 51 associated with a receiver's facsimile number or mail address so that the receiver's 20 address information can be input by pressing the abbreviation key 51, an attachment/non-attachment setting key 52 capable of selectively setting the attachment/non-attachment of the transmission information and the key 52 having various functions such as those described below, and an enter key 53 for entering inputs.

25 Fig. 2 is a block diagram illustrating the construction of a part of the internet facsimile apparatus 10 and a network of communication lines to which the internet facsimile apparatus 10 shown in Fig. 1 is connected, wherein the communication function unit 22 of the facsimile apparatus 10, which plays an important role in performing communications, is mainly illustrated and other components are omitted 30 to simplify the illustration.

As shown in Fig. 2, the facsimile apparatus 10 may connect the line control unit 28 and the Internet 62, via the public telephone line 56 and an internet provider 60. The facsimile apparatus 10 may also connect the network control unit 30 and the

Internet 62, via the LAN 68. A receiver-side facsimile (fax) apparatus A 58 and a receiver-side personal computer (PC) 66 are connected to the Internet 62, via the public telephone line 56 and a receiver-side provider A 64. The receiver-side fax apparatus A 58 is also connected to the internet facsimile apparatus 10, via the public telephone line 56. Similarly, a receiver-side facsimile (fax) apparatus B 59 is connected to the Internet 62 via the public telephone line 56 and a receiver-side provider B 61. A receiver-side facsimile (fax) apparatus C 63 is connected to the Internet 62 via the same LAN 68 as the internet facsimile apparatus 10 is on. Each of the internet facsimile apparatus 10, the fax apparatus A 58, B 59 and C 63 has its own mail address of abc@de.fgh.co.jp, lmn@op.grs.co.jp, tuv@wx.yza.co.jp, and ijk@de.fgh.co.jp, respectively. The mail addresses consists of an account name, followed by an at mark (@) followed by a domain name. That is, the account name is placed before the at mark (@) (the left-side part of the mail address). The domain name is placed after the at mark (@) (the right-side part of the mail address). The domain name includes the letters representing the country, for example, jp for Japan and fr for France, and those representing the type of organization, for example, "co"/"com" for commercial organizations and "go"/"gov" for government agencies. The account name indicates the user name in the organization, so that the users can thereby be identified. The fax apparatus A 58 has a predetermined facsimile number (for example, 03-1234-5678) that can be connected via the public telephone line 56.

The transmission information attachment/non-attachment process in which the various transmission information is selectively attached or not attached to a part of the image information according to the receivers' mail addresses, when the image information is transmitted to each of the above-described receiver-side fax apparatus, will be described in detail with reference to the flowchart shown in Fig. 3.

First, it is determined that the read medium has been set on the image reading unit 16 by a user (S1). When the read medium is not set on the image reading unit 16 (NO in S1), the stand-by state will continue until the user sets the read medium on the image reading unit 16. During the stand-by state (NO in S1), the user may set the attachment/non-attachment of the various transmission information according to receivers' mail addresses or the domain names, by operating the attachment/non-attachment setting key 52 provided on the control panel 46.

With reference to the flowchart shown in Fig. 4, the setting of attaching/not-attaching the various transmission information will be described in detail below. When the read medium is not set on the internet facsimile apparatus 10 and the attachment/non-attachment setting key 52 is pressed, the internet facsimile apparatus 5 10 goes to the setting process of attaching/not attaching the various transmission information according to receivers. First, an user may input a particular domain name of address information, for example, the same domain name as the internet facsimile apparatus 10 (de.fgh.co.jp), using the character keys 50, and the like (S21). For example, the domain name of \*@de.fgh.co.jp, is input using the character keys 50 and 10 the like, and is indicated on the LCD 47. An asterisk \* indicates that the asterisk can assume any account name if the domain name following the at mark (@) matches. To set the non-attachment of the various transmission for the addresses including the domain name of de.fgh.co.jp, "NOT-ATTACHED" is indicated on the LCD 47 by pressing the attachment/non-attachment setting key 52 (NO in S23). The 15 attachment/non-attachment setting key 52 is a toggle switch. Every time the key 52 is pressed, the indication on the LCD 47 changes between, for example, "ATTACHED" and "NOT-ATTACHED". When "NOT-ATTACHED" is indicated on the LCD 47 and the enter key 53 is pressed (YES in S29), the non-attachment of the transmission information is set for the addresses including the domain name of de.fgh.co.jp (S31). 20 Therefore, the transmission information is not attached to the image information to be transmitted to any receivers having the same domain name as "de.fgh.co.jp". To set the non-attachment of the various transmission information to the image information to be transmitted to a particular mail address, for example, lmnn@op.qrs.co.jp, the address lmnn@op.qrs.co.jp is input using the character keys 50 and the like, in step 21, 25 and is shown on the LCD 47. Then, "NOT-ATTACHED" is indicated on the LCD 47 by pressing the attachment/non-attachment setting key 52 (NO in S23), and the enter key 53 is pressed (YES in S29), so that the non-attachment of the transmission information is set for the address, lmnn@op.qrs.co.jp (S31). The embodiment will be further explained below, referring to the setting as described above. However, the 30 setting may be performed in the following manner. A particular domain name or a particular mail address is first input and is shown on the LCD 47 (S21). Thereafter, the "ATTACHED" is indicated on the LCD 47 by pressing the attachment/non-attachment setting key 52 (YES in S23) and the enter key 53 is pressed (YES in S25),

so that the attachment of the transmission information is set for the address including the particular domain name or the particular mail address (S27). In the transmission information attachment/non-attachment process described below, the transmission information is not attached to the image information to be transmitted to the  
5 addresses, for example, having the same domain name as the transmitter-side internet facsimile apparatus 10 (de.fgh.co.jp) and the address (lmn@op.qrs.co.jp) selected by the user.

When the read medium is set on the image reading unit 16 (YES in S1), the receiver's mail address input via the control panel 46 is checked (S3). Then, it is  
10 determined whether the input receiver's mail address has the same domain name (de.fgh.co.jp) as in the mail address of the internet facsimile apparatus 10 (abc@de.fgh.co.jp) (S5). When the input receiver's mail address has the same domain name as that of the internet facsimile apparatus 10 (YES in S5) and the start key 45 is  
15 pressed (YES in S17), the image information on the read medium, which is set on the image reading unit 16, is read (S19) and the read image information is transmitted to the receiver (S15). The transmission information attachment/non-attachment process is then finished. In this case, the image information is transmitted to the receiver without the various transmission information attached.

When the input receiver's mail address does not have the same domain name as the internet facsimile apparatus 10 (NO in S5), it is determined whether the input receiver's mail address is the mail address (lmn@op.qrs.co.jp) for which non-attachment of the various transmission information is preset via the attachment/non-attachment setting key 52 provided on the control panel 46 (S7). When the input receiver's mail address is the mail address for which non-attachment of the various  
20 transmission information is preset (YES in S7) and the start key 45 is pressed (YES in S17), the image information on the read medium set on the image reading unit 16, is read (S19) and the read image information is transmitted to the receiver (S15). The transmission information attachment/non-attachment process is then finished. In this case, the image information is also transmitted to the receiver without the various  
25 transmission information attached.

When the input receiver's mail address is not the mail address (lmn@op.qrs.co.jp) for which non-attachment of the various transmission information is preset (NO in S7), and the start key 45 is pressed (YES in S9), the image

information on the read medium set on the image reading unit 16 is read (S11).

Various transmission information is attached, via the transmission information attaching unit 24, to a part of the image information obtained by reading the read medium (S13) and the read image information is transmitted to the receiver (S15).

5 The transmission information attachment/non-attachment process is then finished. In this case, the image information is transmitted to the receiver with the various transmission information attached.

The results that will be obtained when the transmission information attachment/non-attachment process is performed according to the flow shown in Fig.

10 3, will be explained in detail with reference to Figs. 5-7. Figs. 5A, 6A, and 7A show data contents when image information is transmitted to receiver-side facsimile apparatus, via the internet facsimile apparatus 10. Figs 5B, 6B, and 7B show image information formed on a read medium. Figs. 5C, 6C, and 7C show image information received by the receiver-side facsimile apparatus. The data contents shown in Figs. 5A, 6A, and 7A are formed in a format conforming to the electronic mail standard of Multipurpose Internet Mail Extensions (MIME). The data contents include various information required for the transmission and reception of the image information, in addition to the image data converted in the TIFF-F format after the image information formed on the read medium is read by the image reading unit 16.

20 Fig. 5C shows the results of the transmission information attachment/non-attachment process carried out when the internet facsimile apparatus 10 (abc@de.fgh.co.jp) (see "From" in Fig. 5A) transmits to the receiver-side fax apparatus C 63 (ijk@de.fgh.co.jp) (see "To" in Fig. 5A) at 14:21 on Thursday, the 14th of January, 1999 (see "Date" in Fig. 5A), the image information regarding the Japan map (see "Subject" in Fig. 5A). Since the receiver-side fax apparatus C 63 (ijk@de.fgh.co.jp) has the same domain name (de.fgh.co.jp) as the internet facsimile apparatus 10 (abc@de.fgh.co.jp), it is determined in the step S5 in the flowchart shown in Fig. 3, that the receiver-side fax apparatus C 63 has the same domain name as the internet facsimile apparatus 10 (YES in S5). Therefore, various transmission information is not attached to the image information to be received in the fax apparatus C 63. Consequently, the same image information as that formed on the read medium (shown in Fig. 5B) is received in the fax apparatus C 63 (see Fig. 5C).

Fig. 6C shows the results of the transmission information attachment/non-attachment process carried out when the internet facsimile apparatus 10 (abc@de.fgh.co.jp) (see "From" in Fig. 6A) transmits to the receiver-side fax apparatus A 58 (lmn@op.qrs.co.jp) (see "To" in Fig. 6A) at 14:21 on Thursday, the 5 14th of January, 1999 (see "Date" in Fig. 6A), the image information regarding the Japan map (see "Subject" in Fig. 6A). The fax apparatus A 58 (lmn@op.qrs.co.jp) does not have the same domain name (de.fgh.co.jp) as the internet facsimile apparatus 10 (abc@de.fgh.co.jp) (NO in S5). However, the mail address of the fax apparatus A 58 is the one for which non-attachment of the various transmission information is 10 preset, via the attachment/non-attachment setting key 52. Therefore, it is determined as such in the step S7 of the flowchart in Fig. 3 (YES in S7), and various transmission information is not attached to the image information to be received in the fax apparatus A 58. Consequently, the same image information as that formed on the read medium (shown in Fig. 6B) is received in the fax apparatus A 58 (see Fig. 6C).

Fig. 7C shows the results of the transmission information attachment/non-attachment process carried out when the internet facsimile apparatus 10 (abc@de.fgh.co.jp) (see "From" in Fig. 7A) transmits to the receiver-side fax apparatus B 59 (tuv@wx.yza.co.jp) (see "To" in Fig. 7A) at 14:21 on Thursday, the 14th of January, 1999 (see "Date" in Fig. 7A), the image information regarding the 15 Japan map (see "Subject" in Fig. 7A). The fax apparatus B 59 (tuv@wx.yza.co.jp) does not have the same domain name (de.fgh.co.jp) as the internet facsimile apparatus 10 (abc@de.fgh.co.jp) (NO in S5), or is not the mail address (lmn@op.co.jp) for 20 which non-attachment of the various transmission information is preset, via the attachment/non-attachment setting key 52 (NO in S7). Therefore, various transmission information is attached to a part of the image information (S13) to be 25 received in the fax apparatus B 59. Consequently, the image information such that the transmission information is attached to the top of the image information on the read medium (shown in Fig. 7B), is received in the fax apparatus B 59 (see Fig. 7C).

As described above, the internet facsimile apparatus 10 may selectively attach 30 or not attach various transmission information, according to the receiver's address information. By storing the receiver's address information for which transmission information is not attached, in the EEPROM 38, via the attachment/non-attachment setting key 52, the user of the facsimile apparatus 10 does not have to change some

settings as to the transmission information attachment/non-attachment, every time the image information is sent to the receivers. Therefore, the time required and some burden placed on the user when the image information is transmitted, can be saved and reduced.

5        The transmission information is selectively attached or not attached according to the domain name of receiver's mail address as in the above-described embodiment, wherein when the input receiver's mail address has the same domain name as the internet facsimile apparatus 10 (YES in S5), the transmission information is not attached. Therefore, the time required and some burden placed on the user when the  
10      image information is transmitted, can be saved and reduced.

15      The transmission information is not attached to image information to be transmitted to receivers having the same domain name in the above-described embodiment, due to the following reasons. The fax apparatus C 63 is often used as a remote printer when the image information is transmitted to a receiver in the same company. When the various transmission information is attached to the image information, the fax apparatus C 63 does not function as a remote printer. In contrast, the attachment of the transmission information attached may be convenient for receivers, except for a particular fax apparatus (for example, fax apparatus A 58), such as when image information is transmitted to a fax apparatus used as a normal  
20      facsimile apparatus (for example, fax apparatus B 59).

While the invention has been described with reference to the embodiments, it is to be understood that the invention is not restricted to the particular forms shown in the foregoing embodiments. Various modifications and alternations can be made thereto without departing from the scope of the invention.

25      For example, in the internet facsimile apparatus 10 according to the embodiments of the invention, when the receiver-side facsimile apparatus has the same domain name as the facsimile apparatus 10, the transmission information is not attached. However, transmission information may be attached when the receiver-side facsimile apparatus has the same domain name as the internet facsimile apparatus 10.

30      In this case, as described above with reference to Fig. 4, a particular domain name or a particular mail address is input and is shown on the LCD 47 (S21). Thereafter, "ATTACHED" is indicated on the LCD 47 by pressing the attachment/non-attachment setting key 52 (YES in S23), and the enter key 53 is

pressed (YES in S25), so that the attachment of the transmission information is set for the address including the particular domain name or the particular mail address (S27).

Further, in the internet facsimile apparatus 10 according to the embodiment of the invention, the receiver's mail address is employed as the receiver's address information. However, the invention may also be applied if the receiver's address information is a receiver's facsimile number for a normal facsimile apparatus other than the internet facsimile apparatus.

In Fig. 4, a facsimile number, for example, 03-1234-5678 is input using the ten-numbered keys 48, instead of the character keys 50, and is shown on the LCD 47

(S21). To set the attachment or non-attachment of the various transmission information for the above-described facsimile number, "ATTACHED" or "NOT-ATTACHED" is indicated on the LCD 47 by pressing the attachment/non-attachment setting key 52 (S23). When either "ATTACHED" or "NOT-ATTACHED" is indicated on the LCD 47 and the enter key 53 is pressed (YES in S25/S29), the attachment/non-attachment of the transmission information is set (S27/S31) for the above-described facsimile number.

Even when the attachment/non-attachment of the various transmission information has already been set for a receiver, there may be cases when a user would like to transmit certain data or information to the receiver by changing the attachment/non-attachment setting of the various transmission information. In this case, the setting can be changed again in accordance with the steps shown in Fig. 4.

However, this may be very inconvenient, so that the following method may be employed. As shown in Fig. 8, after setting the read medium (YES in S41), a user inputs the receiver's mail address or facsimile number using the abbreviation key 51, the ten-numbered keys 48, or the character keys 50. As the receiver's mail address or facsimile number is input, the input receiver's mail address or facsimile number is indicated on the LCD 47 and is checked (S43). Then, the LCD 47 indicates the information as to the attachment/non-attachment setting status of the various transmission information in association with the mail address or the facsimile number (S45). At this time, when the attachment/non-attachment setting key 52 is pressed (S47), the attachment/non-attachment setting of the transmission information may temporarily be changed (S49). This is only a temporary setting, so that the setting returns to the original one after the transmission of the certain data or information is

finished. Thereafter, when the start key 45 is pressed (YES in S51), the image information on the read medium is read (S53) and the read image information is transmitted to the receiver (S55), with or without attaching the various transmission information according to the setting.

5 The above described embodiment is explained, on the precondition that it is preset that the various transmission information is attached or not attached according to address information. The setting such that the transmission information is attached for all of the address information, may be employed. In addition, even when the  
10 attachment/non-attachment setting of the various transmission information is made to "non-attachment," the setting may be changed to "attachment," only by pressing one key (the attachment/non-attachment setting key 52), and vice versa.

Next, the other embodiment is explained. In this embodiment, for all receivers who are registered in abbreviated dials, the transmission information is, for example, attached. The abbreviated dials refer to the abbreviation key 51 to be pressed to input  
15 the address information, and one to four character(s) or number(s) (not all characters/numbers of the address information) to be pressed to input the address information using the ten-numbered keys 48 or the character keys 50. When all characters or numbers of a receiver's mail address or facsimile number is input using for example, the ten-numbered keys 48 or the character keys 50 to transmit image  
20 information to a receiver who is not registered in the abbreviated dials, the transmission information is not attached.

As shown in Fig. 9, after the read medium is set (YES in S61), the input address information is checked (S63) and it is determined whether the address information is input using the abbreviated dials, or all characters or numbers of the  
25 address information are input using the ten-numbered keys 48 or the character keys 50 (S65). When it is determined that the address information is input using the abbreviated dials (YES in S65) and the start key 45 is pressed (S67), the image information on the read medium is read (S69). The various transmission information is attached (S71) and the image information is transmitted to the receiver (S73).  
30 When the address information is not input using the abbreviated dials (NO in S65) and the start key 45 is pressed (YES in S75), the image information on the read medium is read (S77). Without attaching the transmission information, the image information is transmitted to the receiver (S73). In this case, for all receivers who are

registered in abbreviated dials, the setting may be changed so that the transmission information may not be attached.

As is apparent from the foregoing description, in this internet facsimile apparatus, the attachment/non-attachment of the various transmission information is selectively determined according to the address information. Therefore, a user of the facsimile apparatus does not have to change some settings as to the transmission information attachment/non-attachment so as to attach or not to attach the transmission information every time the image information is sent to receivers. Consequently, the time required and some burden placed on the user when the image information is transmitted, can be saved and reduced.

Also, in this internet facsimile apparatus, the various transmission information may selectively be attached or not be attached according to the domain name of the receivers. The attachment/non-attachment setting of the transmission information according to the domain name of the receivers, can be easily made, and consequently, the time required and some burden placed on the user when the image information is transmitted, can be saved and reduced.

Further, the various transmission information may be attached or not be attached according receivers having the same or different domain name as the transmitter. The attachment/non-attachment setting of the transmission information according receivers having the same or different domain name as the transmitter, can be easily made, and consequently the time required and some burden placed on the user when the image information is transmitted, can be saved and reduced.

WHAT IS CLAIMED IS:

1. A communication apparatus that transmits to a receiver, image information with transmission information attached to a part of the image information, via a communication line, comprising:

5 an address inputting device that inputs address information of the receiver;

a setting device that sets an attachment or a non-attachment of the transmission information based on the address information;

10 a storage device that stores the address information for which the attachment/non-attachment of the transmission information is set;

a transmission information attaching device that attaches/does not attach the transmission information to the image information, based on the address information stored in the storage device; and

15 a transmission device that transmits the image information with/without the transmission information attached thereto by the transmission information attaching device.

2. The communication apparatus according to claim 1, wherein the address information includes a receiver's mail address having an account name and a domain name.

20 3. The communication apparatus according to claim 2, further comprising:

a receiver's domain name designation device that designates the domain name of the receiver, wherein the transmission information attaching device selectively attaches/does not attach the transmission information to the image information to be transmitted, according to the conformance/non-conformance of the receiver's domain name in the address information input via the address inputting device, to the receiver's domain name designated via the receiver's domain name designation device.

25 4. The communication apparatus according to claim 2, wherein the communication apparatus has a transmitter's mail address having an account name and a domain name and the transmission information attaching device selectively attaches/does not attach the transmission information to the image information to be

transmitted, according to the conformance/non-conformance of the transmitter's domain name to the receiver's domain name.

5. The communication apparatus according to claim 1, further comprising:

a changing device that temporarily changes the transmission information attachment/non-attachment setting made for the address information.

6. A communication apparatus capable of transmitting image information to a receiver, via a communication line, comprising:

an address inputting device that inputs address information of the receiver; and

a transmission information attaching device that attaches the transmission information to a part of the image information;

wherein the transmission information attaching device selectively determines the attachment/non-attachment of the transmission information according to the address information.

7. The communication apparatus according to claim 6, wherein the address information includes a receiver's mail address having an account name and a domain name.

8. The communication apparatus according to claim 7, further comprising:

a receiver's domain name designation device that designates the domain name of the receiver, wherein the transmission information attaching device selectively attaches/does not attach the transmission information to the image information to be transmitted, according to the conformance/non-conformance of the receiver's domain name in the address information input via the address inputting device, to the receiver's domain name designated via the receiver's domain name designation device.

9. The communication apparatus according to claim 7, wherein the communication apparatus has a transmitter's mail address having an account name and a domain name and the transmission information attaching device selectively attaches/does not attach the transmission information to the image information to be transmitted, according to the conformance/non-conformance of the transmitter's domain name to the receiver's domain name.

10. The communication apparatus according to claim 6, further comprising:

a changing device that temporarily changes the transmission information attachment/non-attachment setting made for the address information.

11. A communication apparatus capable of transmitting image information to a receiver, via a communication line, comprising:

an address inputting device that inputs address information of the receiver;

a setting device that sets an attachment or a non-attachment of the transmission information according to the address information; and

a transmission information attaching device that attaches the transmission information to a part of the image information;

wherein the transmission information attaching device selectively determines the attachment/non-attachment of the transmission information based on the address information.

12. The communication apparatus according to claim 11, wherein the address information includes a receiver's mail address having an account name and a domain name.

13. The communication apparatus according to claim 12, further comprising:

a receiver's domain name designation device that designates the domain name of the receiver, wherein the transmission information attaching device selectively attaches/does not attach the transmission information to the image information to be transmitted, according to the conformance/non-conformance of the receiver's domain name in the address information input via the address inputting device, to the receiver's domain name designated via the receiver's domain name designation device.

14. The communication apparatus according to claim 12, wherein the communication apparatus has a transmitter's mail address having an account name and a domain name and the transmission information attaching device selectively attaches/does not attach the transmission information to the image information to be transmitted, according to the conformance/non-conformance of the transmitter's domain name to the receiver's domain name.

15. The communication apparatus according to claim 11, further comprising:

a changing device that temporarily changes the transmission information attachment/non-attachment setting made for the address information.

5 16. A communication apparatus capable of transmitting image information to a receiver, via a communication line, comprising:

an address inputting device that inputs address information of the receiver;

10 a setting device that sets an attachment/non-attachment of the transmission information to the image information;

a changing device that changes the transmission information attachment/non-attachment setting made by the setting device;

15 a transmission information attaching device that attaches/does not attach the transmission information to a part of the image information, based on the setting made by the setting device and the result of change made by the changing device; and

a transmission device that transmits to the receiver the image information, according to the address information input by the address inputting device.

20 17. The communication apparatus according to claim 16, wherein the address information includes a receiver's mail address having an account name and a domain name.

18. The communication apparatus according to claim 17, further comprising:

25 a receiver's domain name designation device that designates the domain name of the receiver, wherein the transmission information attaching device selectively attaches/does not attach the transmission information to the image information to be transmitted, according to the conformance/non-conformance of the receiver's domain name in the address information input via the address inputting device, to the receiver's domain name designated via the receiver's domain name designation device.

30 19. The communication apparatus according to claim 17, wherein the communication apparatus has a transmitter's mail address having an account name and

a domain name and the transmission information attaching device selectively attaches/does not attach the transmission information to the image information to be transmitted, according to the conformance/non-conformance of the transmitter's domain name to the receiver's domain name.

5        20.    A communication apparatus capable of transmitting image information to a receiver, via a communication line, comprising:

                  an address inputting device that inputs address information of the receiver;

10            a storage device that stores at least one piece of the receiver's address information input by the address inputting device;

                  a determination device that determines whether the address information of the receiver to whom the image information is transmitted, is the address information stored in the storage device or the address information newly input by the address inputting device;

15            a transmission information attaching device that attaches/does not attach the transmission information to a part of the image information, based on the determination result by the determination device; and

                  a transmission device that transmits to the receiver the image information, according to the receiver's address information.

20        21.    The communication apparatus according to claim 20, wherein the address information includes a receiver's mail address having an account name and a domain name.

22.       The communication apparatus according to claim 21, further comprising:

25            a receiver's domain name designation device that designates the domain name of the receiver, wherein the transmission information attaching device selectively attaches/does not attach the transmission information to the image information to be transmitted, according to the conformance/non-conformance of the receiver's domain name in the address information input via the address inputting device, to the receiver's domain name designated via the receiver's domain name designation device.

30        23.    The communication apparatus according to claim 21, wherein the communication apparatus has a transmitter's mail address having an account name and

a domain name and the transmission information attaching device selectively attaches/does not attach the transmission information to the image information to be transmitted, according to the conformance/non-conformance of the transmitter's domain name to the receiver's domain name.

5        24. The communication apparatus according to claim 20, further comprising:

          a changing device that temporarily changes the transmission information attachment/non-attachment setting made for the address information.

ABSTRACT OF THE DISCLOSURE

The invention provides a internet facsimile apparatus of a communication apparatus that selectively attaches or does not attach various transmission information (header information) according to receivers. When a user set a read medium on an 5 image reading unit, a receiver's mail address input through a control panel is checked. When the input receiver's mail address does not have the same domain name as the internet facsimile apparatus and is not the mail address for which non-attachment of the transmission information is preset, the transmission information is attached, via the transmission information attaching unit, to a part of the image information 10 obtained by reading the image information formed on the read medium. Then, the read image information is transmitted to the receiver.

Fig. 1

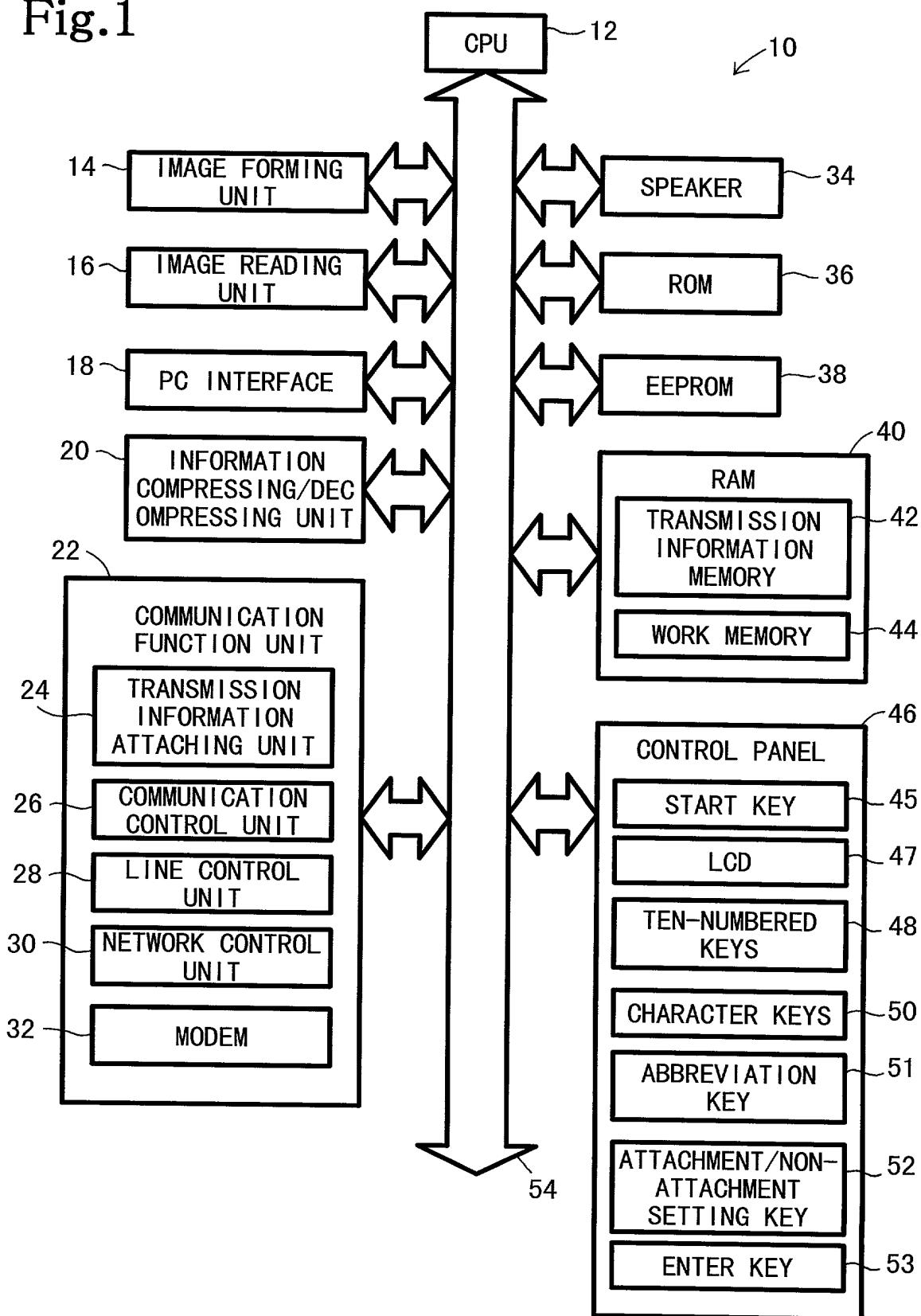


Fig. 2

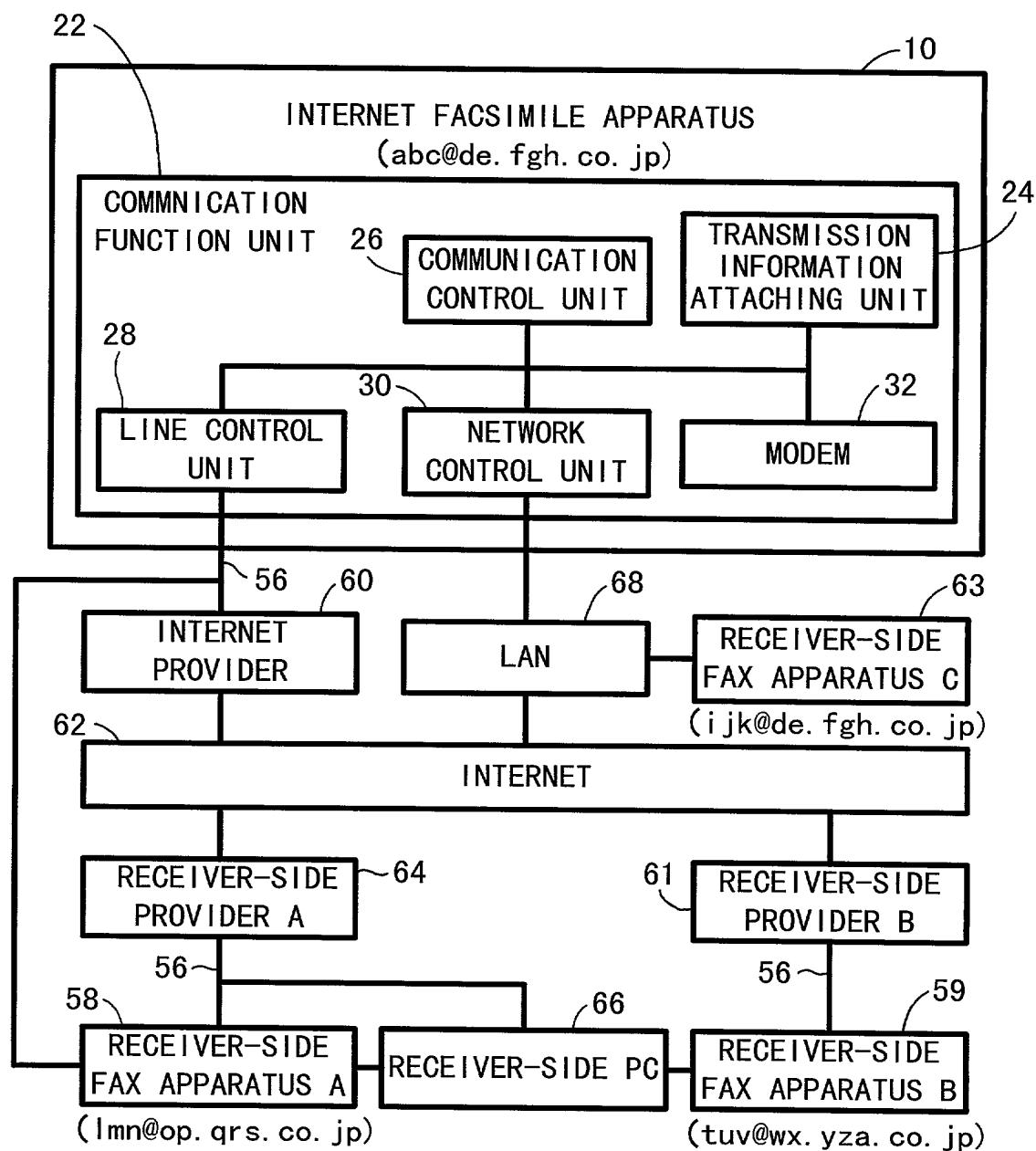


Fig. 3

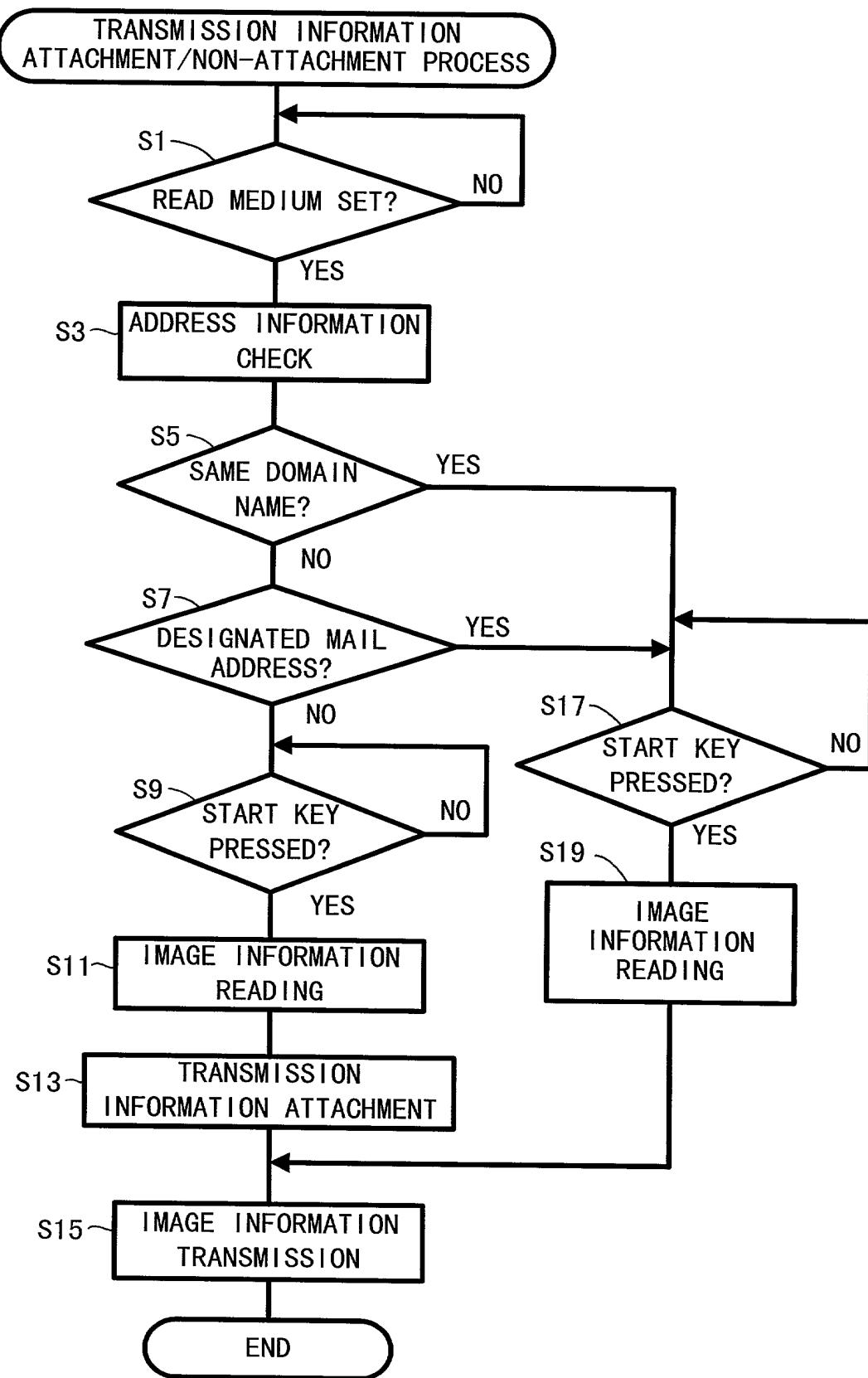


Fig. 4

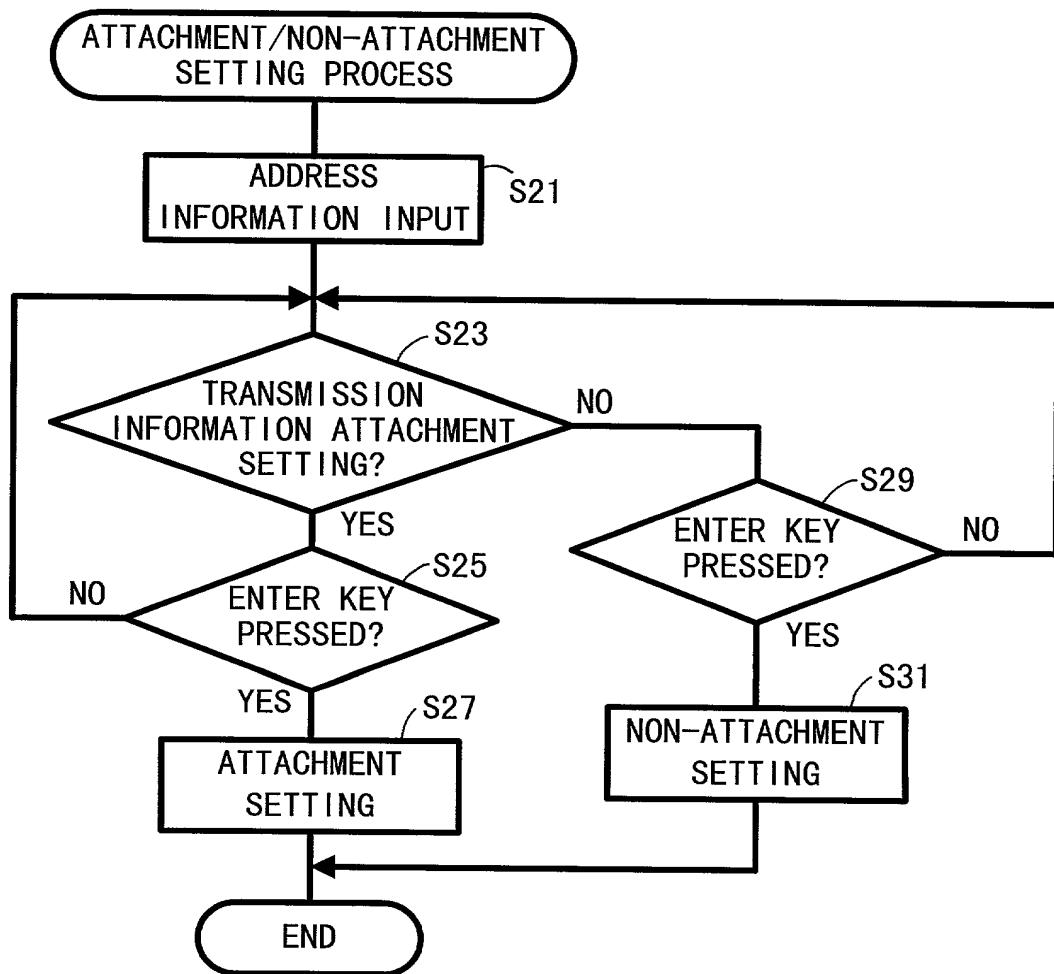


Fig. 5A

From :abc@de. fgh. co. jp  
To :ijk@de. fgh. co. jp  
Date :THU, 14 JAN 1999 00:14:21  
Subject :JAPAN MAP  
Content-Type :Text/plain; charset="ISO-2022JP"

IMAGE DATA IN TIFF-F FORMAT ATTACHED.

Content-Type :Image/tiff; name="image.tif"

IMAGE DATA (TIFF-F FORMAT)

Fig. 5B

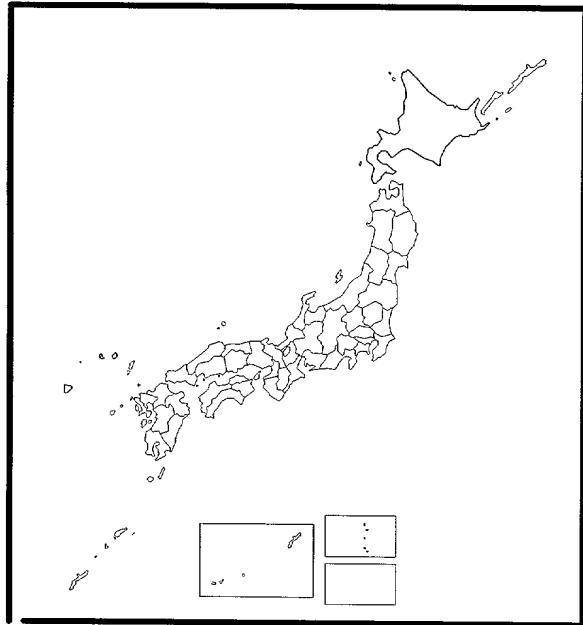


Fig. 5C

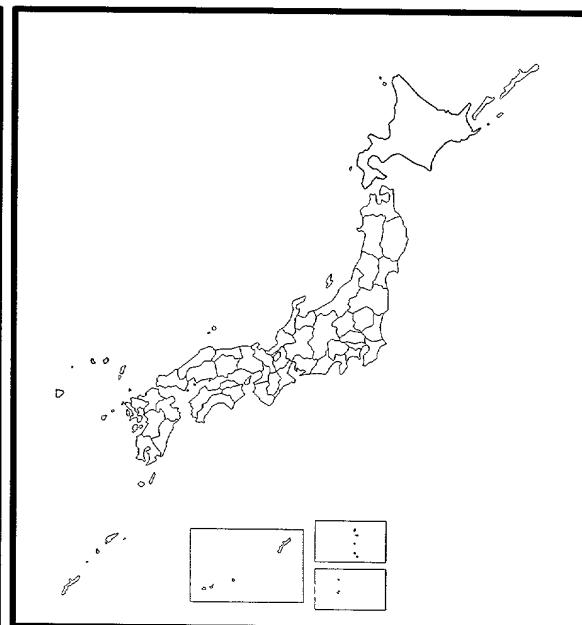


Fig. 6A

From :abc@de. fgh. co. jp  
To :i jk@de. fgh. co. jp  
Date :THU, 14 JAN 1999 00:14:21  
Subject :JAPAN MAP  
Content-Type :Text/plain; charset="ISO-2022JP"

IMAGE DATA IN TIFF-F FORMAT ATTACHED.

Content-Type :Image/tiff; name="image.tif"

IMAGE DATA (TIFF-F FORMAT)

Fig. 6B

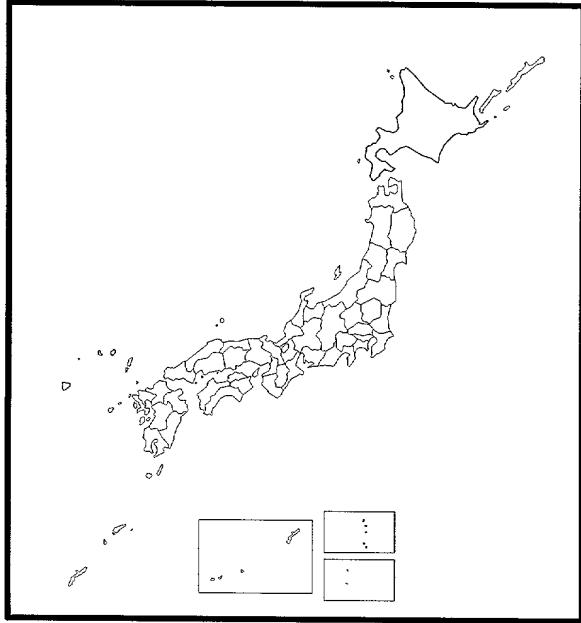


Fig. 6C

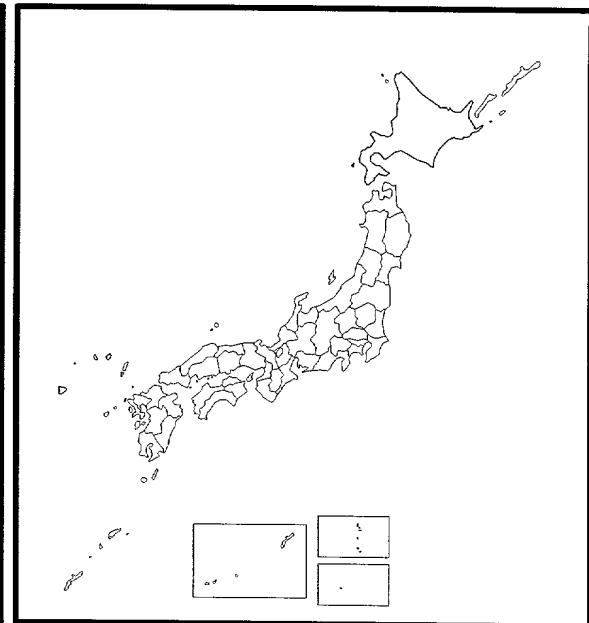


Fig. 7A

From :abc@de. fgh. co. jp  
To :i jk@de. fgh. co. jp  
Date :THU, 14 JAN 1999 00:14:21  
Subject :JAPAN MAP  
Content-Type :Text/plain; charset="ISO-2022JP"

IMAGE DATA IN TIFF-F FORMAT ATTACHED.

Content-Type :Image/tiff; name="image.tif"

IMAGE DATA (TIFF-F FORMAT)

+

TRANSMISSION INFORMATION  
(TRANSMITTER, TRANSMISSION DATA, ETC.)

Fig. 7B

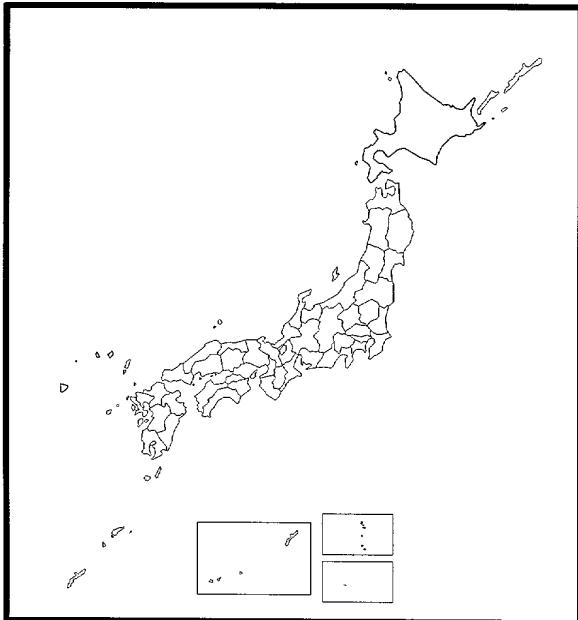


Fig. 7C

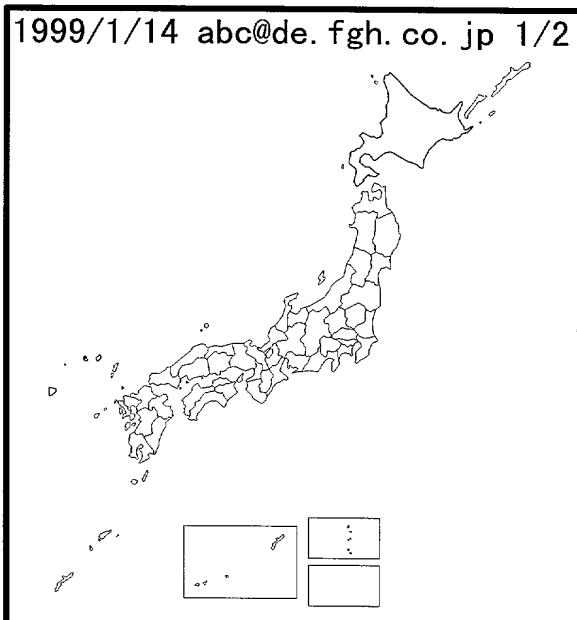


Fig. 8

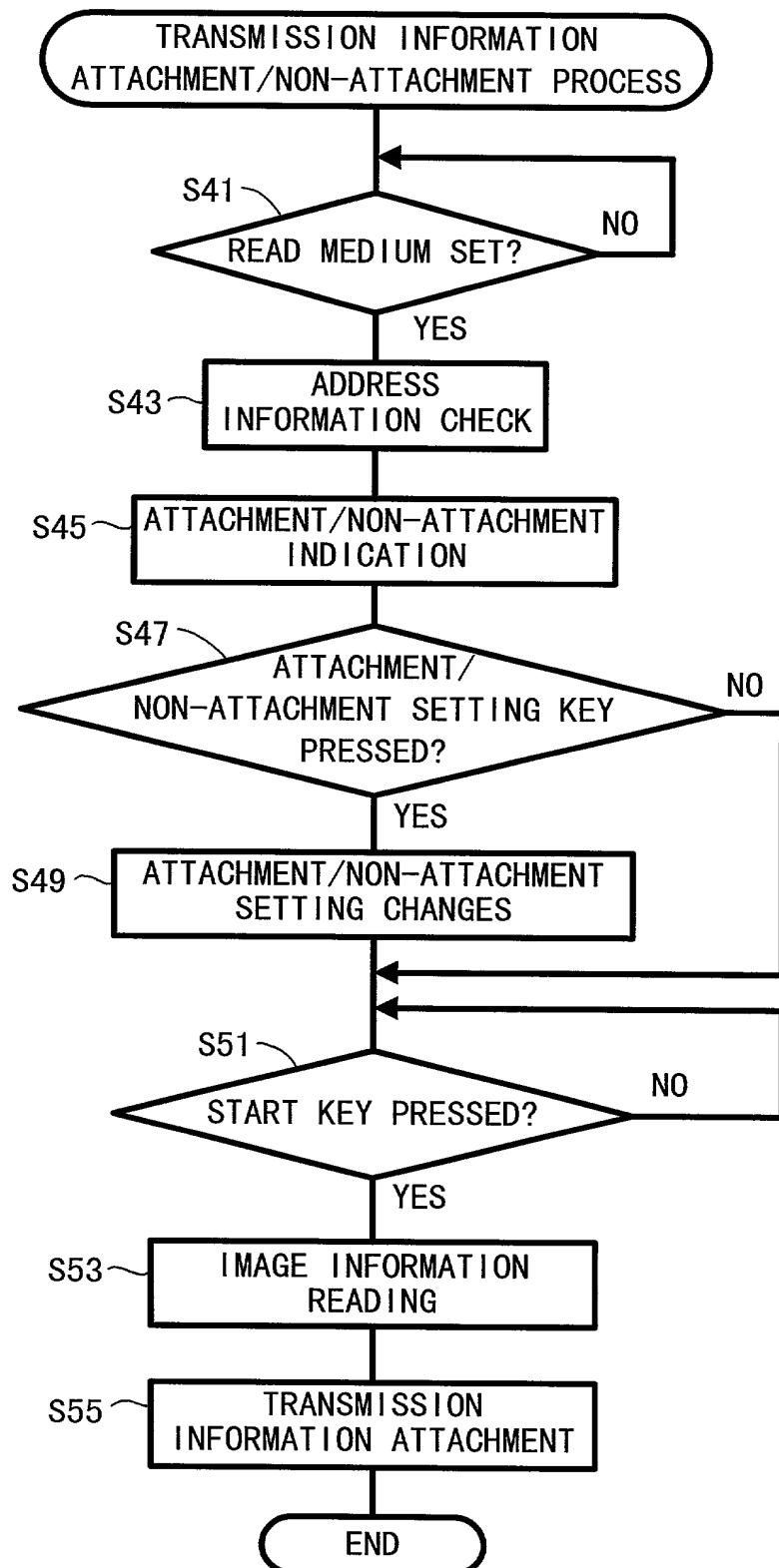
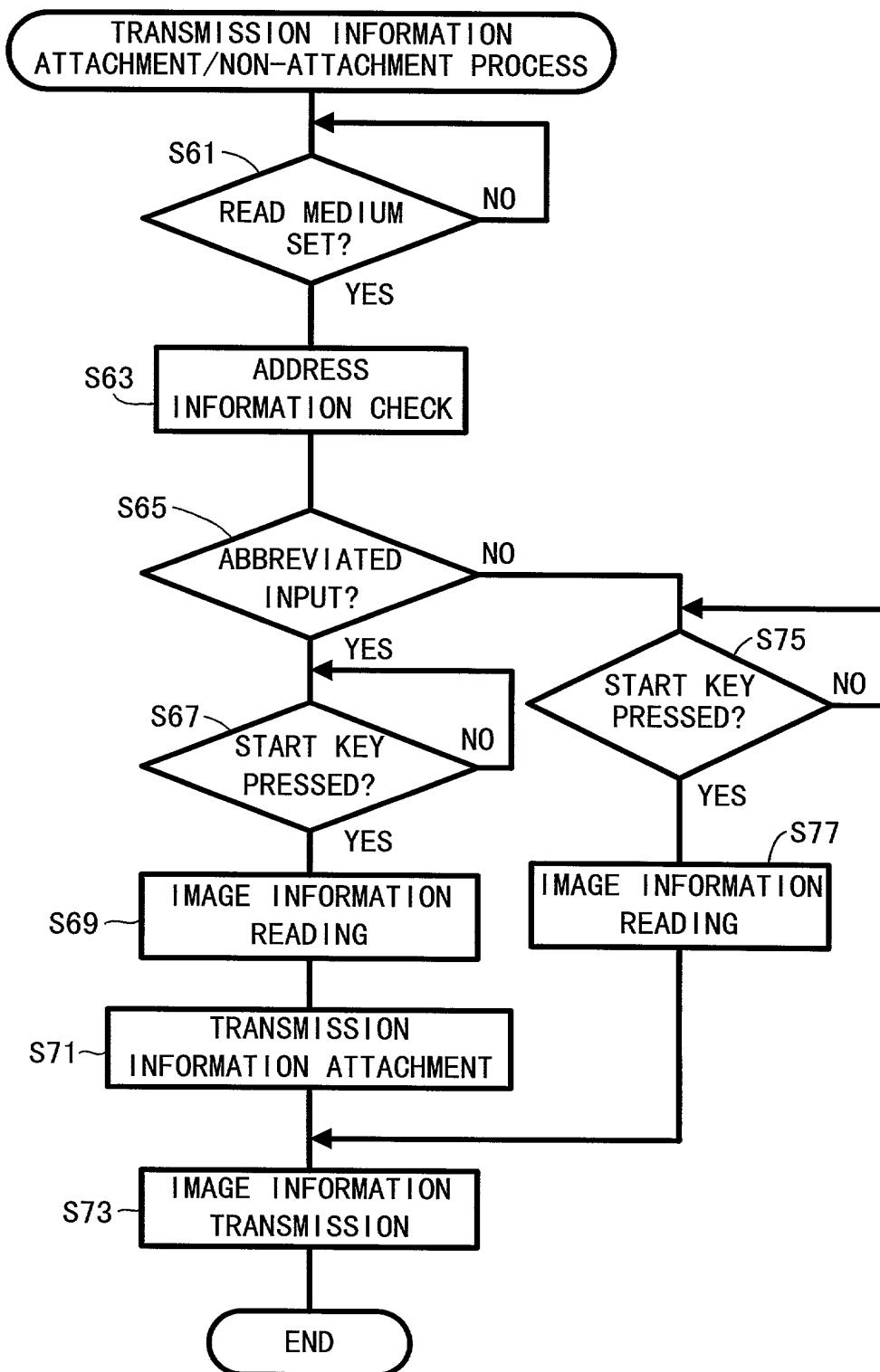


Fig. 9



# Declaration and Power of Attorney for Patent Application

## 特許出願宣言書兼委任状

### Japanese Language Declaration

私は、下欄に氏名を記載した発明者として、  
以下のとおり宣言する：

私の住所、郵便の宛先および国籍は、下欄に  
氏名に統いて記載したとおりであり、下記各称の  
発明に関し、請求の範囲に記載した特許を求める  
主題の本来の、最初にして唯一の発明者である  
(一人の氏名のみが下欄に記載されている場合)  
か、もしくは本来の、最初にして共同の発明  
者である(複数の氏名が下欄に記載されている場合)  
と信じ、

As a below named inventor, I hereby  
declare that:

My residence, post office address and  
citizenship are as stated below next to my name.  
I believe I am the original, first and sole inventor  
(if only one name is listed below) or an original,  
first and joint inventor (if plural names are listed  
below) of the subject matter which is claimed  
and for which a patent is sought on the invention  
entitled:

#### COMMUNICATION APPARATUS

その明細書を  
(該当するものにチェック)  
□ ここに添付する。

□ 年 月 日

出願番号第 \_\_\_\_\_ として出願され、

年 月 日 補正し、  
(該当する場合)

the specification of which  
(check one)  
 is attached hereto.

was filed on \_\_\_\_\_  
as

Application Serial No. \_\_\_\_\_  
and was amended  
on \_\_\_\_\_  
(if applicable)

私は、前記のとおり補正した請求の範囲を含む  
前記明細書の内容を検討し、理解したことを陳述  
する。

私は、連邦規則法典第37章第1条第56項に従  
い、本願の特許性の有無について重要な情報を開  
示すべき義務を有することを認める。

私は、合衆国法典第35章第119条に基づく下記  
の外国特許出願または発明者証出願の外因優先  
権利益を主張し、さらに優先権の主張に係わる基  
礎出願の出願日前の出願日を有する外国特許出  
願または発明者証出願および/または米国仮出願  
を以下に明記する：

I hereby state that I have reviewed and  
understand the contents of the above identified  
specification, including the claims, as amended  
by any amendment referred to above.

I acknowledge the duty to disclose  
information which is material to patentability as  
defined in Title 37, Code of Federal Regulations,  
§1.56.

I hereby claim foreign priority benefits  
under Title 35, United States Code §119 of any  
foreign application(s) for patent or inventor's  
certificate listed below and/or any U.S.  
provisional application(s) listed below and have  
also identified below any foreign application for  
patent or inventor's certificate having a filing  
date before that of the application on which  
priority is claimed:

Prior foreign and/or provisional applications  
先行外国出願/仮出願

Priority claimed  
優先権の主張

Patent Appln. No. 11-36242 (Number/番号)	JAPAN (Country/国名)	February 15, 1999 (Filing Date/出願日)	<input checked="" type="checkbox"/> (Yes/はい)	<input type="checkbox"/> (No/いいえ)
(Number/番号)	(Country/国名)	(Filing Date/出願日)	<input type="checkbox"/> (Yes/はい)	<input type="checkbox"/> (No/いいえ)
(Number/番号)	(Country/国名)	(Filing Date/出願日)	<input type="checkbox"/> (Yes/はい)	<input type="checkbox"/> (No/いいえ)
(Number/番号)	(Country/国名)	(Filing Date/出願日)	<input type="checkbox"/> (Yes/はい)	<input type="checkbox"/> (No/いいえ)

私は、合衆国法典第 35 章第 120 条に基づく下記の合衆国特許出願の利益を主張し、本願の請求の範囲各項に記載の主題が合衆国法典第 35 章第 112 条第 1 項に規定の態様で先の合衆国出願に開示されていない限度において、先の出願の出願日と本願の国内出願日または PCT 國際出願日の間に公表された連邦規則法典第 37 章第 1 条第 56 項に記載の所要の情報を開示すべき義務を有することを認める。

I hereby claim the benefit under Title 35, United States code, §120 of any United States application(s) listed below and, in so far as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112.

I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No./出願番号)	(Filing Date/出願日)	(Status: Patented, Pending, abandoned/ 現状:特許成立、係属中、放棄済み)
(Application Serial No./出願番号)	(Filing Date/出願日)	(Status: Patented, Pending, abandoned/ 現状:特許成立、係属中、放棄済み)

私は、ここに自己の知識にもとづいて行った陳述がすべて真実であり、自己の有する情報および信ずるところに従つて行った陳述が真実であると信じ、さらに故意に虚偽の陳述等を行つた場合、合衆国法典第 18 章第 1001 条により、罰金もしくは禁錮に処せられるか、またはこれらの刑が併科され、またかかる故意による虚偽の陳述が本願ないし本願に対して付与される特許の有効性を損なうことがあることを認識して、以上の陳述を行つたことを宣言する。

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

委任状：私は下記発明者として、以下の代理人をここに選任し、本願の手続を遂行すること並びにこれに関する一切の行為を特許商標庁に対して行うことを委任する。（代理人氏名および登録番号を明記のこと）

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

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Second inventor's signature/第二発明者の署名	Date/日付
Residence/住所	
Citizenship/国籍	
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